

## UNITED STATE PARTMENT OF COMMERCE

## **Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/271,411	03/17/9	9 NORTHRUP		М	22660-0009P1
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HM12/0606 HELLER EHRMAN WHITE & MCAULIFFE			MADOC	ourre A	
525 UNIVERSITY AVENUE			ART UNIT	PAPER NUMBER	
PALO ALTO,	PALO ALTO, CA 94301-1900			1631	5
				DATE MAILED:	
					06/06/00

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

## Office Action Summary

Application No. 09/271,411

Applicant(s)

Northrup et al.

Examiner

**Ardin Marschel** 

Group Art Unit 1631



Responsive to communication(s) filed on						
☐ This action is <b>FINAL</b> .						
☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle35 C.D. 11; 453 O.G. 213.						
A shortened statutory period for response to this action is set to expire3month(s), or thirty da longer, from the mailing date of this communication. Failure to respond within the period for response will application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provided of the provid	cause the					
Disposition of Claim						
	ending in the applicat					
Of the above, claim(s)is/are withdra	awn from consideration					
Claim(s)is	s/are allowed.					
	s/are rejected.					
Claim(s)is	s/are objected to.					
☐ Claims are subject to restriction of	or election requirement.					
Application Papers						
☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.						
☐ The drawing(s) filed on is/are objected to by the Examiner.						
☐ The proposed drawing correction, filed on is ☐ approved ☐disapproved.						
☐ The specification is objected to by the Examiner.						
☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. § 119						
Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).						
☐ All ☐Some* None of the CERTIFIED copies of the priority documents have been						
received.						
received in Application No. (Series Code/Serial Number)						
received in this national stage application from the International Bureau (PCT Rule 17.2(a)).						
*Certified copies not received:  Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).						
Attachment(s)  XI Notice of References Cited, RTO 893						
X Notice of References Cited, PTO-892  X Information Disclosure Statement(s), PTO-1449,    (2 sheets)						
☐ Interview Summary, PTO-413						
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948						
☐ Notice of Informal Patent Application, PTO-152						
SEE OFFICE ACTION ON THE FOLLOWING PAGES						

Art Unit: 1631

The art unit designated for this application has changed.

Applicant(s) are hereby informed that future correspondence should be directed to Art Unit 1631.

If applicant desires priority under 35 U.S.C. § 120 based upon a previously filed copending application, specific reference to the earlier filed application must be made in the instant application. It is noted that this appears as the first sentence of the specification following the title. The status of non-provisional application(s) (whether patented or abandoned) should also be included. If a parent application has become a patent, the expression "now Patent No.\_\_\_\_\_\_" should follow the filing date of the parent application. If a parent application has become abandoned, the expression "now abandoned" should follow the filing date of the parent application.

Claims 1-18 are rejected under 35 U.S.C. § 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The amendment to the independent claims 1 and 16 adds NEW MATTER as the amended claims are broader than the disclosure as filed because of the newly added embodiments directed to chambers and regions of the device which now are not enclosed by the unitary body which is different from the unitary device as originally

filed and claimed.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1, 8, and 13-15 are rejected under 35 U.S.C. § 102(b) and (e) as being clearly anticipated by Wilding et al.(P/N 5,587,128).

In Wilding et al. Figure 12 depicts a device which anticipates the above listed claims. The reaction chamber(s) 22C/22D are separated from the separation chamber 22A via a channel. Flow is restricted via the protrusions 90 in chamber 22B or the filter 24 both of which are between the reaction and separation chambers. These various parts are thermally isolated in order for different procedures in each section, such as the PCR cycles in 22C/22D, for example, which reads on the thermal isolation of instant claim 1, for example. Example 2 in columns 25-26 describes various aspects of said Figure 12 device. The

dimension ranges of instant claim 13 are included as species as given in the reference in column 4, lines 37-60. Side channels are present for reagent addition as shown in Figure 12 and required for instant claims 14 and 15.

Claims 1-4, 7, 8, and 10-22 are rejected under 35 U.S.C. § 102(e) as being clearly anticipated by Jerman (P/N 5,824,204).

Jerman discloses the device of Figure 3A which anticipates the instantly claimed invention in that three chambers or regions are depicted as 24, 70, and 94 each isolated on the chip for separate reactions including thermally. This is emphasized in that item 68 is a specific heating element for chamber 24. Electrodes are present as items 108, 104, 106, and 90 which effect electroosmotic movement between the three chambers. Figure 3A is discussed in column 4, line 45, through column 6, line 65.

No claim is allowed.

Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be faxed to Group 1600 via the PTO Fax Center located in Crystal Mall 1. faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 The CM1 Fax Center number is either (703) 308-CFR § 1.6(d)). 4242 or (703)305-3014.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., whose telephone number is (703) 308-3894. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are

Serial No. 09/271,411 - 5 - Art Unit: 1631 unsuccessful, the examiner's supervisor, Michael Woodward, can be reached on (703) 308-4028. Any inquiry of a general nature or relating to the status of this application should be directed to the Technical Center receptionist whose telephone number is (703) 308-0196. June 5, 2000